

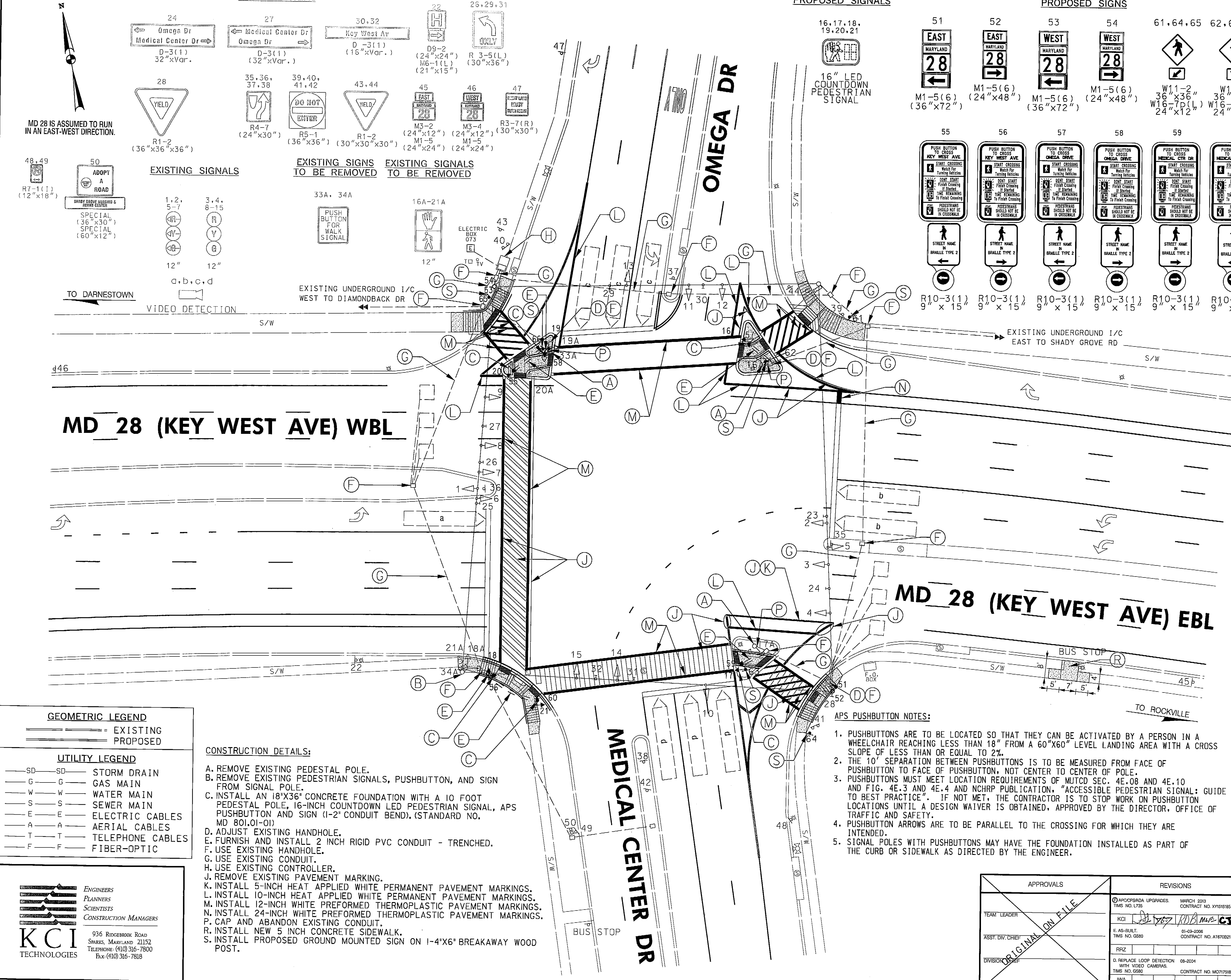
BY: Joost Van Boekhold Division: P068 Highway Traff GMA Emp

DRILL HOLES

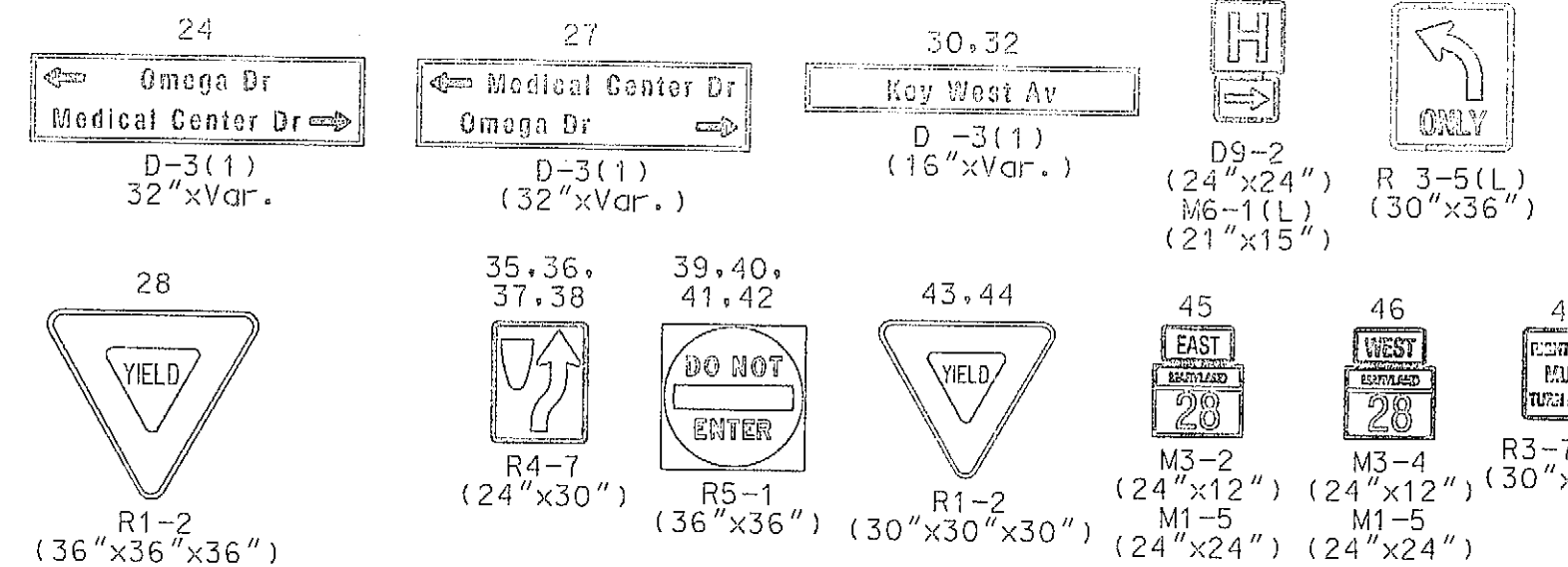
DRILL HOLES

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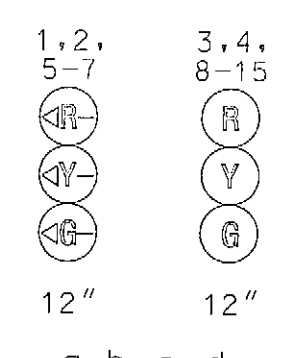
BORDER REV: DATE: MARCH 17, 2013



EXISTING SIGNS



EXISTING SIGNALS



EXISTING SIGNS TO BE REMOVED



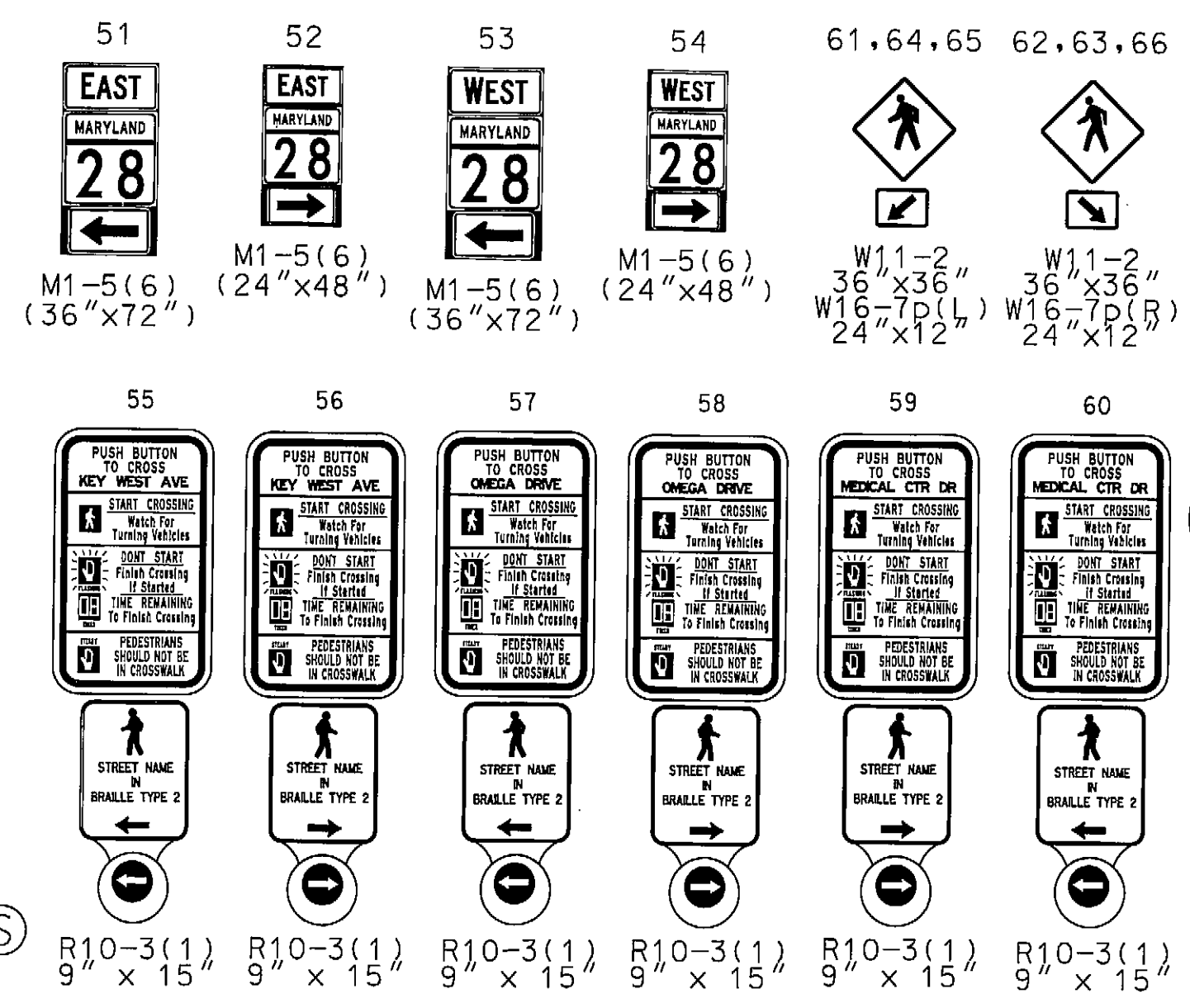
EXISTING SIGNALS TO BE REMOVED



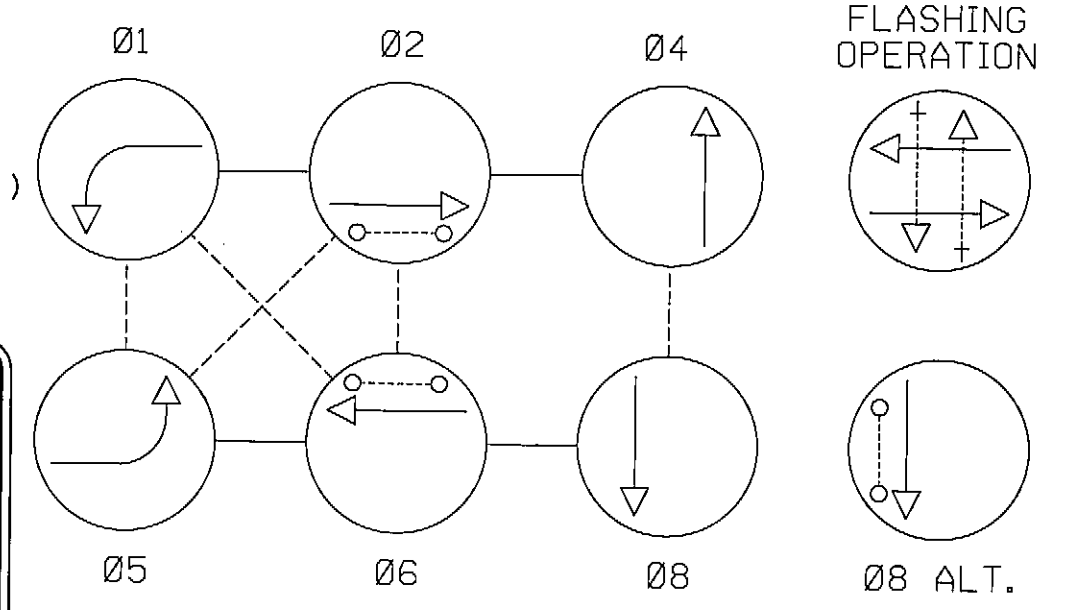
PROPOSED SIGNALS



PROPOSED SIGNS



NEMA PHASING



NOTE:  
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

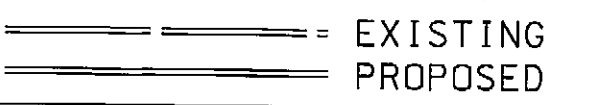
GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. REMOVE ALL POLE FOUNDATIONS 12 INCHES BELOW GRADE.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED FROM TRAFFIC SIGNAL CONDUITS.
6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE CONTACT THE PROJECT ENGINEER.
7. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04.
8. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
9. CONTRACTOR TO REMOVE EXISTING LANDSCAPE AS NECESSARY TO INSTALL TRAFFIC SIGNAL EQUIPMENT.
10. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
11. NO RIGHT-OF-WAY INFORMATION WAS SHOWN ON SIGNAL PLAN OF RECORD.

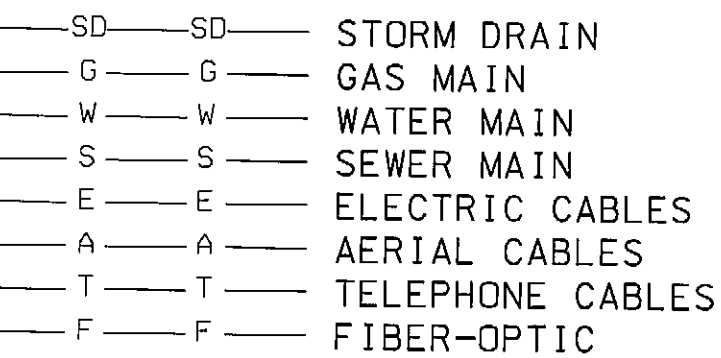
APS PUSHBUTTON NOTES:

1. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"x60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
2. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
3. PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.08 AND 4E.10 AND FIG. 4E.3 AND 4E.4 AND NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
4. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
5. SIGNAL POLES WITH PUSHBUTTONS MAY HAVE THE FOUNDATION INSTALLED AS PART OF THE CURB OR SIDEWALK AS DIRECTED BY THE ENGINEER.

GEOMETRIC LEGEND



UTILITY LEGEND



CONSTRUCTION DETAILS:

- A. REMOVE EXISTING PEDESTAL POLE.
- B. REMOVE EXISTING PEDESTRIAN SIGNALS, PUSHBUTTON, AND SIGN FROM SIGNAL POLE.
- C. INSTALL AN 18"x36" CONCRETE FOUNDATION WITH A 10 FOOT PEDESTAL POLE, 16-INCH COUNTDOWN LED PEDESTRIAN SIGNAL, APS PUSHBUTTON AND SIGN (1-2" CONDUIT BEND). (STANDARD NO. MD 801.01-01)
- D. ADJUST EXISTING HANDHOLE.
- E. FURNISH AND INSTALL 2 INCH RIGID PVC CONDUIT - TRENCHED.
- F. USE EXISTING HANDHOLE.
- G. USE EXISTING CONDUIT.
- H. USE EXISTING CONTROLLER.
- J. REMOVE EXISTING PAVEMENT MARKING.
- K. INSTALL 5-INCH HEAT APPLIED WHITE PERMANENT PAVEMENT MARKINGS.
- L. INSTALL 10-INCH HEAT APPLIED WHITE PERMANENT PAVEMENT MARKINGS.
- M. INSTALL 12-INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
- N. INSTALL 24-INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
- P. CAP AND ABANDON EXISTING CONDUIT.
- R. INSTALL NEW 5 INCH CONCRETE SIDEWALK.
- S. INSTALL PROPOSED GROUND MOUNTED SIGN ON 1-4"x6" BREAKAWAY WOOD POST.

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APPROVALS	
TEAM LEADER	
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
1. ADDED/REMOVED UPDATES	MARCH 2013
2. AS-BUILT	01-09-2006
3. REPLACE LOOP DETECTION WITH VIDEO CAMERAS	08-2004
4. JWA	

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 28 (KEY WEST AVENUE) AT  
MEDICAL CENTER DRIVE/OMEGA DRIVE  
ROCKVILLE, MARYLAND

**TRAFFIC SIGNAL PLAN**

SCALE: 1" = 20' ADVERTISED DATE: CONTRACT NO. AT670B21

DESIGNED BY: COUNTY: MONTGOMERY  
DRAWN BY: LOGMILE: 15R02800.99  
CHECKED BY: TMS NO.:  
F.A.P. NO.: TOD NO.:

TS NO. 4057 F DRAWING SG-1 OF 3 SHEET NO. 7 OF 23

PLOTTED: 10:25 AM on Tuesday, April 02, 2013  
FILE: M:\2009\01090619.87\drawings\p068-P003-MD28.dgn